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PATENT

Paper No. 1

Our File No.

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Date 20 Sept 1999

Group Communications Multiplexing System

Daniel L. Marks

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the "chat room", there is no particular control over the platform that would be encountered on the Internet. Therefore, development of multiplexing technology for such an environment has been minimal.

Even with an emergence of the World Wide Web, which does have certain graphical multimedia capability, sophisticated chat room communication multiplexing has been the domain of the Internet service providers. Users therefore have a choice between the limited audience of a particular Internet Service provider or the limited chat capability of the Internet.

III. SUMMARY OF THE INVENTION

It is an object of the present invention to overcome such limitations of the prior art and to advance and improve the technology of group computer multiplexing to enable better computerized group communications.

It is another object of the present invention to provide a computerized human communication arbitrating and distributing system.

It is yet another object of the present invention to provide a group communication multiplexing system involving a controller digital computer linked to a plurality of participator computers to organize communications by groups of the participator computers.

It is still another object of the present invention to link the controller computer and the plurality of computers with respective software coordinated to arbitrate multiplexing activities.

It is still a further object of the present invention to provide a chat capability suitable for handling graphical, textual, and multimedia information in a platform independent manner.

These and other objects and utilities of the invention, which apparent from the discussion herein, are addressed by a computerized human communication arbitrating

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FIG. 17 is an illustration of an attribute revocation on the new channel screen of the present invention.

FIG. 18 is a further illustration of the new channel screen of the present invention.

FIG. 19 is an illustration of the channel list window screen of the present invention.

FIG. 20 is an illustration of the toggle posting option on a screen of the present invention.

FIG. 21 is an illustration of a moderated version of the new channel screen of the present invention.

FIG. 22 is an illustration of a communication on a moderation window screen of the present invention.

FIG. 23 is an illustration of the communication passed on to the moderated version of the new channel screen of the present invention.

FIG. 24 is an illustration of a communication, for sending a graphical multimedia message, on to the moderated version of the new channel screen of the present invention.

FIG. 25 is an illustration of a communication, for passing a URL (Uniform Resource Locator) to channel members, on a moderator pull-down menu screen of the present invention.

FIG. 25 is an illustration, showing the name of the URL, on a moderated version of the new channel screen of the present invention.

FIG. 26 is an illustration of data associated with the graphical multimedia message on a moderated version of the new channel screen of the present invention.

FIG. 27 is an illustration of a proprietary editor, suitable for a dialog to change tokens, on a screen of the present invention.

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FIG. 28 is an illustration of a text-based interface login/password screen of the present invention.

FIG. 29 is an illustration of a text-based interface group screen of the present invention.

FIG. 30 is another illustration of a text-based interface group screen of the present invention.

FIG. 31 is another illustration of a text-based interface group screen of the present invention.

FIG. 32 is an illustration of a text-based interface private message screen of the present invention.

FIG. 33 is another illustration of a text-based interface private message screen of the present invention.

FIG. 34 is another illustration of a text-based interface group with moderator screen of the present invention.

V. DETAILED DESCRIPTION OF THE DRAWINGS

In providing a detailed description of a preferred embodiment of the present invention, reference is made to an appendix hereto, including the following items.

Appendix Contents

ALLUSER C
ALLUSER H
CHANNEL C
CHANNEL H
CHANNEL HLP
CLIST C
CLIST H
CLIST HLP
EDITUSER C
EDITUSER H
ENTRYFRM C
ENTRYFRM H
ENTRYFRM HLP
HELP C

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HELP H
HELPSCR C
HELPSCR H
LINEEDIT C
LINEEDIT H
LIST C
LIST H
LOGIN HLP
MAIN C
MAKEFILE
MESSAGE C
MESSAGE H
MODERAT HLP
PRIVATE C
PRIVATE H
PRIVATE HLP
SOCKIO C
SOCKIO H
STR C
STR H
UCCLIENT
USER C
USER H
WINDOW C
WINDOW H

~~Note that the appendix includes code for two different embodiments: a~~

~~Tellnet-embodiment and a JAVA embodiment. Documentation and error messages, help~~

~~files, log files, are also included in the appendix. While platform controlled embodiments~~

are within the scope of the invention, it is particularly advantageous to have a platform independent embodiment, i.e., an embodiment that is byte code compiled.

Referring now to FIG. 1, the overall functioning of a computerized human communication arbitrating and distributing System 1 of the present invention is shown with odd numbers designating hardware or programmed hardware, and even numbers designating computer program logic and data flow. The System 1 includes a digital Controller Computer 3, such as an Internet service provider-type computer. The Controller Computer 3 is operating with an operating system.

System 1 also includes a plurality of digital Participator Computers 5, each of which may be an IBM-compatible personal computer with a processor and a DOS operating system. Each of the Participator Computers 5 includes an Input Device 7 for

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

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The present invention comprehends communicating all electrically communicable multimedia information as Message 8, by such means as pointers, for example, URLs. URLs can point to pre-stored audio and video communications, which the Controller Computer 3 can fetch and communicate to the Participator Computers 5.

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exploded window 38 shows a display of member information including a user's name, personal information, and attributes/properties/permissions (operations involving the subsequently discussed tokens), i.e., stored per channel attributes under each member. In any case, confirmation or denial of access is communicated via Block 40 for multiplexing return of status messages to a target object.

From the portion of Block 10, the logic flows to Block 42 for MESSAGE and MODMSG API instructions. Block 42 tests which of the two instructions were received, and for MODMSG, the logic flows to Block 44, which tests whether the user is a moderator. If the user is not a moderator, the logic flows to Block 46, which sends a denial message through Block 40. If, however, in Block 44 the user is a moderator, the logic flows to Block 48 for a repeat to all list members who are permitted to see the message, via Block 40.

Returning to Block 42, if MESSAGE is detected, the logic flows to Block 50, which tests whether a user has post permission. If the user has post permission, the logic flows to Block 48, etc. If the user does not have post permission, the logic flows to Block 52 to forward the message to moderators for approval, via Block 40.

Additionally, the logic flows from Block 10 to Block 54 for a URL API instruction. Block 54 tests whether the user has graphical multimedia communication privileges, and if not, the logic flows via Block 56, which sends a denial message via Block 40. Otherwise, if the user does have graphical multimedia communications privileges in Block 54, Block 58 sends graphical multimedia information to all approved users via Block 40.

Turning now to FIG. 4, central controller loop communications is illustrated. For the data on central poll point 58 (see Appendix POLL_POINT), a "do" loop begins at Block 60 for each connection. Block 62 tests whether bytes are available on the data stream. If they are, the bytes are added to user space FIFO per connection at Block 64, leading to Block 66, which tests whether there are any more connections. Note

[illegible]

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2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

FIG. 6 is a participant software out-of-band multimedia information flow diagram, which begins with Block 26, the multimedia type patch point. Block 26 leads to Block 102, which tests whether there is an internally handlable multimedia type. If not, Block 104 looks up a suitable agent for data type presentation, which leads to Block 106, which tests whether an agent was found. If not, Block 108 reports location of data to the user for future referencing. If the agent is found in Block 106, the logic flows to Block 110, which invokes the agent with a data reference to present the data.

With further regard to the manner of interaction between the controller computer 3 and the participator computers 5, and their respective computer programs 2

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and 4, includes a moderation capability that is controlled, or arbitrated, pursuant to system 1 recognizing user identity. Note that using the user identity for moderation purposes is a use additional to the use of the user identity for security purposes.

One embodiment of the present invention is to bring chat capability to the internet and World Wide Web. However, another embodiment involves non-internet relay chat. In either embodiment, System 1 is state driven such that synchronous and asynchronous messages can be communicated. For an asynchronous notification, each message is sent through the system 1 (API), which updates the information on the output device of the participator computers 5. For a synchronous notification, a participator computer 5 must interrogate the system 1 for a message.

With regard to the arbitrating of the controller computer 3 is directed by the controller computer program 2 to use "identity tokens", which are pieces of information associated with user identity. The pieces of information are stored in memory 11 in a control computer database, along with personal information about the user, such as the user's age. The control computer database serves as a repository of tokens for other programs to access, thereby affording information to otherwise independent computer systems. In the database, the storage of tokens can be by user, group, and content, and distribution controls can also be placed on the user's tokens as well as the database.

Each token is used to control the ability of a user to gain access to other tokens in a token hierarchy arbitration process. The arbitration also includes controlling a user's ability to moderate communications involving a group or subgroup of the participator computers ³~~5~~. Once in a group, temporary tokens are assigned for priority to moderate/submoderate groups (a group is sometimes known as a channel in multiplexing terminology).

Accordingly, tokens are used by the controller computer 5 to control a user's group priority and moderation privileges, as well as controlling who joins the

channel), clicks on the user ME in the member list to select ME, pulls down the Moderator menu, and selects "Toggle Moderator." This removes the moderator privileges from ME.

As a result of the attribute revocation, the "M" has disappeared from next to ME's name in the member list (at FIG. 17), indicating that the property is no longer associated with the user ME.

Now DMARKS returns to the Channel List window (at FIG. 18). DMARKS wishes to fully moderate the contents of the channel TESTCHANNEL, censoring all unwanted communications to the channel. DMARKS returns to the channel list, and selects the channel TESTCHANNEL by clicking on its name in the channel list.

Now DMARKS selects the "Toggle All Posting" option in the Maintenance pull-down menu (at FIG. 19). This will turn off the channel property "posting," (or sending communications to the channel without moderator approval) which will be indicated by the removal of the letter "P" from next to the name TESTCHANNEL (at FIG. 20).

Now the letter "P" is removed from after the name TESTCHANNEL in the Channel List window (at FIG. 21), indicating that this channel is now moderated and will only have free posting ability by designated members.

Now, type user ME (who is also on channel TESTCHANNEL) wishes to send communications: "this will not be written directly to the channel" (at FIG. 22). The controller, instead of sending it immediately to the channel to be seen by all members, will instead forward the message to the moderators for approval. The moderator, DMARKS, will then see the message on the Moderation Window, which provides a preview of any messages to be sent. To approve a message for general viewing, DMARKS now clicks on the message.

Now that DMARKS has clicked directly on the message, it is displayed inside the group's Channel window for all members to see (at FIG. 23).

DMARKS now wishes to send a graphical multimedia message. This implementation sends graphical multimedia images by allowing a channel member to specify an Internet URL of a graphical multimedia resource to be presented to the group members. In this example, DMARKS wishes to send the URL "http://www.ais.net" (corresponding to the World Wide Web home page of American Information Systems, Inc.) to the channel members. DMARKS enters the URL into the response window, and selects "Send URL" from the Moderator pull-down menu (at FIG. 24).

The controller computer 5 now passes the URL to the channel members. This participator software 4 performs two actions in response to the graphical multimedia display request. The first is to put the name of the URL onto the transcript of the group's channel, so that it can be read by group members. The second response is to have the participator software show the data associated with the graphical multimedia message in a human interpretable way (at FIG. 25). To do this, the participator software 6 either uses built in rules to decide how the graphical multimedia data is to be presented, or locates another program suitable to present the data. In this case, the software 6 is utilizing Netscape Navigator™, a program for displaying graphical multimedia documents specified by a URL (at FIG. 26). Inside the Navigator window, the graphical multimedia content, the home page of AIS, is shown.

Finally, DMARKS wishes to manually modify the attribute tokens associated with the user (at FIG. 27). The user invokes the Property Editor dialog, which allows the user to view and change the tokens associated with a user. A property of a given user is determined by the Identifier and Property names. An old value of the property is shown, and a token value can be changed in the "New Value" field. With this property editor, a user with sufficient permissions (tokens) can change any of the tokens or security parameters of any user, or a user's ability to change security parameters can be restricted.

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Now ME will return to the screen for the channel TESTCHANNEL. The member list area has changed because DMARKS has revoked ME's moderator permission. ME is no longer permitted to see the permissions of other users, so this information has been removed from his display (at FIG. 33). The only information he can see now is who is moderator (at FIG. 34). A "*" next to the identifier of a member of the group indicates the member is a moderator of the group. ME is no longer a moderator, and therefore a "*" does not appear the identifier ME.

^{Further}
To ~~further~~ exemplify the use of the present invention, the following is a transcript of communications produced in accordance herewith.

POWERQUALITY JOHNMUNG: unclear about meaning of "first contingency"

POWERQUALITY SAM: mike, that is correct on IEEE 519

POWERQUALITY SKLEIN: In assessing network security (against outage) the first contingencies are tested to see how the power system should be reconfigured to avoid getting a second contingency and cascading into an outage.

POWERQUALITY MSTEARS: These outages point out the need for reliability as part of the overall customer picture of PQ

POWERQUALITY BRIAN: Hi Jennifer, hit crt-p for private messagae

POWERQUALITY SKLEIN: In simpler terms, a single point failure shouldn't crash the system.

POWERQUALITY SKLEIN: Are we all chatted out?

POWERQUALITY ANDYV: brian, johnmung has been banned!!! why?

POWERQUALITY BRIAN: no way, new subject

POWERQUALITY BRIAN: just a sec, andy

POWERQUALITY BRIAN: No banning on this channel, John is back on

POWERQUALITY TKEY: ieee 519 limits the harmonic current a customer can inject back into the pcc and limit the vthd the the utility provides at the PCC

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POWERQUALITY JOHNMUNG: thanks guys, for unbanning me- i've been thrown out of better places than this!

POWERQUALITY BRIAN: New subject...now...

POWERQUALITY BRIAN: good one john.... :)

POWERQUALITY MSTEARS: For critical facilities dual feeds or other backup capability need to be economically evaluated to keep the facility in operation

POWERQUALITY SAM: John, I remember that club very well

POWERQUALITY JOHNMUNG: question: please comment on frequency of complaints involving spikes, sags or harmonics

POWERQUALITY WARD: Problems caused by sags is the main complaint.

POWERQUALITY BRIAN: What subject does anyone want to see the next chat

POWERQUALITY WARD: Surges is probably next; harmonics really don't cause that many problems, although they are certainly there.

POWERQUALITY ANDYV: what is the solution ward?

POWERQUALITY TKEY: Agree they are the most frequent (sags) and the panel session on the cost of voltage sags at PES drew 110 people

POWERQUALITY SAM: harmonics tend to be an interior problem within a facility, rather than on the distribution system

POWERQUALITY WARD: The best solution is making the equipment less susceptible to sags. This requires working with the manufacturers.

POWERQUALITY ANDYV: won't that cost more

POWERQUALITY MSTEARS: The complaint of surges covers many things in the customers eyes sags have become a real problem because they are harder to resolve

POWERQUALITY GRAVELY: John-The latest EPRI results confirms the 90+ % of the time SGS are the problem and short term ones.

POWERQUALITY WINDSONG: What is the topic for the 25??

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POWERQUALITY WARD: Each problem can be dealt with as it occurs, but the time involved gets very expensive.

POWERQUALITY JOHNMUNG: making equipment less susceptible causes legal problems for manufacturers- as each improvement can be cited by complainant as example of malfeasance

POWERQUALITY WARD: AndyV: The cost to the manufacturer increases. The overall cost to everyone involved decreases.

POWERQUALITY TKEY: customer pays any way you cut it, if the eqpt is more immune customers pay only once instead of every time the process fails

POWERQUALITY BRIAN: The topic is regarding Power Quality

POWERQUALITY BRIAN: This chat is available for everyone 24 hours a day

POWERQUALITY ANDYV: ddorr>> will the manufacturer spend more to produce a better product

POWERQUALITY WARD: And as Tom says, the cost to the customer is far less.

POWERQUALITY BRIAN: This chat will be functioning 24 hrs/day

POWERQUALITY BRIAN: please use it

POWERQUALITY BRIAN: The next panel discussion is Nov 15th

POWERQUALITY WARD: Andy, that's where standards come in.

POWERQUALITY SKLEIN: Is the customer capable of resolving the fingerpointing among the manufacturers and utilities?

POWERQUALITY DDORR: andy, only if the end users create a market for pq compatible eqpt by demanding better products

POWERQUALITY MSTEARS: The manufacturers problems in including fixes is being competitive with some who doesn't provide the fix

POWERQUALITY ANDYV: how will we educate the general consumer?

POWERQUALITY GRAVELY: Is it possible to have a basic theme topic or some core questions for 15 Nov chat?

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POWERQUALITY WARD: Stan, the customer cannot be expected to resolve the fingerprinting. The manufacturers and utilities need to work together.

POWERQUALITY ANDYV: about power quality and reliability?

POWERQUALITY SKLEIN: If electric power is going to be treated as a fungible commodity, there has to be a definition. Like, everyone knows what number 2 heating oil is.

POWERQUALITY SAM: Ideally a manufacturer would not be able to compete if they don't add the protective function in their products, but alot more public education is required before we get to this point.

POWERQUALITY WARD: Andy, there are many ways to educate the customers, but they require a lot of contact between the utility and the customers. The Western Resources Power Technology Center in Wichita is doing it, just as an example.

POWERQUALITY DDORR: standard power vs premium power is one solution as is std qpt vs Pq compatible eqpt

POWERQUALITY SKLEIN: I want to buy number 2 electric power and to be able to check the nameplates of my appliances to be sure they can take it. Just like I buy regular gasoline.

POWERQUALITY MSTEARS: Sam - I agree, that is partly the utilities responsibility since we serve the customers

POWERQUALITY BBOYER: What differentiates number 2 from number 1?

POWERQUALITY SKLEIN: I used the analogy of number 2 heating oil. I don't know what number 1 heating oil is.

POWERQUALITY DDORR: Number two has cap switching and all the normal utility operational events while number one is much better

POWERQUALITY SKLEIN: Perhaps we can just say regular vs high test.

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POWERQUALITY SAM: mike, yes a joint effort between the utility, manufacturer and standards jurisdictions is a goal for utilicorp as we move forward with offering from our strategic marketing partners, and bring PQ technologies to the public

POWERQUALITY TKEY: We are finding that many mfgs want to produce pq compatible equipment, but they have no clue as to what to test for

POWERQUALITY ANDYV: Tom > > will the IEC standards help?

POWERQUALITY TKEY: Its up to the utility to help define normal events IEC will take time

POWERQUALITY SKLEIN: You can't have a commodity product with all the variation in specifications we have been discussing. It has to be regular, premium, and super premium or it won't work.

POWERQUALITY JOHNMUNG: Tom as a former manufacturer i sympathize--your work at PEAC is invaluable but anecdotal knowledge from utility people on the firing line is equally important

POWERQUALITY TKEY: Super premium, does that mean a UPS?

POWERQUALITY ANDYV: how do you stop a facility from affecting you super-premium power?

POWERQUALITY TKEY: John, Good Point

POWERQUALITY SAM: Tkey, a ups, local generation or redundant service

POWERQUALITY SKLEIN: This is what I meant earlier by electricity being a non-virtualizable service. You can't make each customer see the power system as though they had their own dedicated generating plant.

POWERQUALITY BRIAN: THE CHAT CHANNEL WILL BE OPEN 24/HRS/DAY 7 DAYS A WEEK

POWERQUALITY TKEY: I must sign out for about 5 minutes but I'll be back

POWERQUALITY BRIAN: OK TOM

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POWERQUALITY MSTEARS: PQ for facilities need to be done with a system perspective to to get the right resolution

POWERQUALITY BBOYER: Andy's question is still relevant - how do stop a facility from downgrading utility service to other customers?

POWERQUALITY BRIAN: MIKE> > LETS SWITCH BACK TO RETAIL WHEELING

POWERQUALITY WARD: You work with that customer to do whatever is needed to correct their disturbances.

POWERQUALITY BBOYER: Be more specific

POWERQUALITY MSTEARS: Interaction between facilities can be evaluated and designed for

POWERQUALITY JOHNMUNG: as a key to hardening it helps to identify the most sensitive circuits, i.e. microprocessor logic, test for vulnerability under common surges, sags, rfi, and then notify users that their equipment contains these subsystems- for a start

POWERQUALITY BRIAN: hi DOUG

POWERQUALITY GRAVELY: Brian: Are you saving this session as a file? Can we get a list of chat session participants?

POWERQUALITY BRIAN: s, we may

POWERQUALITY DMARKS: gravelly: hit TAB and use the arrow keys to page through the list of participants

POWERQUALITY SKLEIN: Will the session be available for downloading?

POWERQUALITY BRIAN: yes, Mike we will publish in PQ Magazine

POWERQUALITY WARD: Part of the agreement for high quality power should be that the customer receiving the power will not disturb the utility system.

POWERQUALITY BRIAN: if john let's us.....

POWERQUALITY GRAVELY: I tried that, however, netcruiser has a software problem and I cannot see all of the names.

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POWERQUALITY SAM: most utilities rules and regulations already require that a customer not put anything back out on the utility system

POWERQUALITY BRIAN: MIKE G. > > WE WILL PUBLISH THIS IN PQ MAG NEXT MONTH IF ASNDY LETS US

POWERQUALITY BRIAN: HOW ABOUT IT ANDY?

POWERQUALITY ANDYV: ok

POWERQUALITY BRIAN: COOL

POWERQUALITY WARD: Standards will have to be set for what constitutes a disturbance, and then the utility should work with customers, install filters, etc., to be sure they stay within the rules.

POWERQUALITY BRIAN: THANKS ANDY

POWERQUALITY ANDYV: a meeting review or a summary of events

POWERQUALITY GRAVELY: It would be good to take a few minutes to recommend how the 15 Nov session could be more effective.

POWERQUALITY BRIAN: A SYNAPSE OF THIS CHAT WILL BE IN NEXT MONTHS PQ MAG

POWERQUALITY WINDSONG:

POWERQUALITY SKLEIN: I don't get PQ mag. Will it be on the Net?

POWERQUALITY BRIAN: STAN SIGN UP FOR IT ON OUR HOME PAGE

POWERQUALITY DOUGC: the transcript of this conference will be available on the EnergyOne pages.

POWERQUALITY BRIAN: YOU CAN SIGN UP ON LINE

POWERQUALITY BRIAN: [HTTP://WWW.UTILICORP.COM](http://www.utilicorp.com)

POWERQUALITY WINDSONG: Good comment Gravelly Comments from the users would be greatly appreciated!!

POWERQUALITY SAM: PQ magazine is available online on the UCU internet bulletin board, <http://www.utilicorp.com>

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POWERQUALITY ANDYV: or link from powerquality.com

POWERQUALITY BRIAN: YOU CAN GET A FREE MAG SUBSCRIPTION FROM
UTILICORP'S HOME PAGE

POWERQUALITY SKLEIN: Thanks

POWERQUALITY BRIAN: ALSO, THERE IS A PQ FORUM ON OUR HOME PAGE

POWERQUALITY JOHNMUNG: for nov 15 shall we pick five key topics? suggest
health care, energy storage rfi/emc as a few topics--also new gas turbine 25 kw generator
just announce today-- just some suggestions

POWERQUALITY BRIAN: GOOD SUGGESTION JOHN

POWERQUALITY ANDYV: lets develop an outline of topics for next time.

POWERQUALITY BRIAN: OK

POWERQUALITY GRAVELY: One suggestion for 15 Nov--Have participants place a list
of desired topics on your other chat box and prioritize by interest level.

POWERQUALITY SKLEIN: How about deregulation and retail wheeling.

POWERQUALITY BRIAN: COMMENTS SHOULD BE SENT TO ME BY EMAIL

POWERQUALITY BRIAN: BSPENCER@UTILICORP.COM

POWERQUALITY BRIAN: 15 minutes remaining

POWERQUALITY ANDYZYREK: Let's discuss the new standard IEEE 1159.

POWERQUALITY ANDYV: may be we could generate an online questionnaire to see
what people are needing discussed.

POWERQUALITY BRIAN: but the chat is available for 24 hrs/day 7 days a week

POWERQUALITY ANDYV: what does IEEE1159 address?

POWERQUALITY BRIAN: Please send all suggestion to me for our next chat

POWERQUALITY BRIAN: Bobbin is not banned now

POWERQUALITY BRIAN: my fault

POWERQUALITY ANDYZYREK: New PQ measuring techniques. We have not
received our issue yet.

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POWERQUALITY ANDYV: You should have it my now.

POWERQUALITY BRIAN: Bobbin is not banned anymore

POWERQUALITY ANDYV: you can e-mail me or john at: editors@powerquality.com

POWERQUALITY BRIAN: is two hours right fdo rhtis feature

POWERQUALITY JOHNMUNG: do i understand that many programmable logic
controllers can be hardened by addition of simple CVT like a sola?

POWERQUALITY ANDYZYREK: Yes, but it is being delivered by snail mail.

POWERQUALITY ANDYV: no 2nd class

POWERQUALITY BRIAN: 15 minutes to go

POWERQUALITY ANDYV: Please e-mail me you complete name and address and I will
mail you one today 1st class.....now is that serice or what?

POWERQUALITY BRIAN: Is two hours long enough for tthis chat?

POWERQUALITY TKEY: Im back

POWERQUALITY WARD: Brian, I think two hours is about right.

POWERQUALITY BRIAN: hi tom

POWERQUALITY BRIAN: good...

POWERQUALITY ANDYV: yes I agree 2hrs

POWERQUALITY BRIAN: anyone else

POWERQUALITY ANDYV: it the time of day correct?

POWERQUALITY BRIAN: questions now....

POWERQUALITY SKLEIN: The topic foremost in my mind right now is what to eat for
lunch. I enjoyed the discussion, which I understand has been historic in some sense. But
I think I will sign off now and go eat.

POWERQUALITY SAM: 2 hours seems to work very well

POWERQUALITY DANIELH: time of day is good

POWERQUALITY BILLMANN: 2 hrs is fine

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POWERQUALITY MSTEARS: Two hours work well, the middle of the day allows east and west coast to be involved

POWERQUALITY BRIAN: good, Will everyone be back for the next chat

POWERQUALITY GRAVELY: Brian, I will forward my recommendations on email, thanks.

POWERQUALITY BILLMANN: yes i'll be back

POWERQUALITY ANDZYREK: Brian, would it be possible to have a forum published on your home page prior to Nov 15 .

POWERQUALITY BRIAN: I would like to do another chat before Nov 15th, any thoughts

POWERQUALITY ANDY: U bet

POWERQUALITY SAM: I believe that this chat may set an attendance record for most participants during a first session

POWERQUALITY JOHNMUNG: a parting thought--"harmonics make the music rich, they make the tone inspring--harmonics in your power line WILL BLOW THE BUILDINGS WIRING" dIM MUNGENAST

POWERQUALITY BRIAN: Your're all invited to return

POWERQUALITY BRIAN: the next chat

POWERQUALITY BRIAN: This chat feature will help set standards of how we view our industry

POWERQUALITY WARD: For me this was two hours very well spent, and it was quite enjoyable.

POWERQUALITY BRIAN: Tell a colleague about our chat Nov 15th

POWERQUALITY BRIAN: Thanks Ward

POWERQUALITY BRIAN: I would like to do this on a weekly basis, any thoughts yet

POWERQUALITY GRAVELY: John: talk it up in Germany!!

POWERQUALITY ANDY: I would like to thank utilicorp and everyone envolved.

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POWERQUALITY BRIAN: Thanks Andy for your help

POWERQUALITY WARD: Did this notice go out to the Power Globe mailing list?

POWERQUALITY BRIAN: No, but could help us Ward with that

POWERQUALITY BRIAN: Lets all get the word out about this chat

POWERQUALITY WARD: I'm on the list and will be glad to forward anything you wish to it.

POWERQUALITY BRIAN: Please use it whenever you wish, even schedule your own chats whenever

POWERQUALITY JOHNMUNG: MANY THANKS TO UTILICORP AND ALL INVOLVED- FROM AN OLD STEAM BOATER :-)

POWERQUALITY BRIAN: thanks ward

POWERQUALITY BRIAN: Hi duane

POWERQUALITY BRIAN: This chat is offically over, but do stick around for foir more chatting

POWERQUALITY BRIAN: Thanks to all, cya on Nov 15th

POWERQUALITY MSTEARS: Ward, Tom, and John I appreciate your participation

POWERQUALITY BRIAN: Thanks Guys and Ladies!!!!!!!!!!!!

POWERQUALITY SWPPD: WHAT IS HAPPENING ON NOV. 15

POWERQUALITY BRIAN: our next chat with a panel of experts

POWERQUALITY BRIAN: topic yet to be decided

POWERQUALITY DPSWOBO: Hi Brian, Sorry I was on the phone and could not respond right away. Did I get the time incorrectly for the chat?

POWERQUALITY BRIAN: please send us a suggestions

POWERQUALITY ANDY: good bye ;-)

POWERQUALITY BRIAN: Yeah, but stick around to chat with some friends

POWERQUALITY BRIAN: We had a total of 50 people and avg of 20 people at one time

POWERQUALITY BRIAN: Thanks everyone!!!Lunch Time

POWERQUALITY BRIAN: Next Chat Nov 15th at 10-12 ct

POWERQUALITY BRIAN: But this chat line is available 24hrs/day/7 days a week

POWERQUALITY BRIAN: Please use it whenever

POWERQUALITY GRAVELY: Thanks to the panel and Utilicorp for the session!

POWERQUALITY BRIAN: Talk to your colleagues and friends about any particular topic

POWERQUALITY BRIAN: Come see our home page for new topics and chats

POWERQUALITY BRIAN: <http://www.utilicorp.com>

POWERQUALITY BRIAN: Thanks Power Quality Assurance Magazine and All our panel members

POWERQUALITY BRIAN: :)

POWERQUALITY SWPPD: MISSED THIS SESSION. ICAN WE GET HARD COPY INFO?

POWERQUALITY BRIAN: yes swwp, it will be published in pq mag and our home page

POWERQUALITY BRIAN: catch our next session on nov 15th

POWERQUALITY BRIAN: 10-12 ct

POWERQUALITY SWPPD: THANKS A BUNCH!!

POWERQUALITY SWPPD: GOOD BYE!

POWERQUALITY BRIAN: no prob

POWERQUALITY BRIAN: cya

POWERQUALITY DESWETT:

POWERQUALITY TKEY: Good session brian, dorr and I will be signing off now, look forward to the next session

POWERQUALITY DPSWOB: Thanks for the info on the next session, we will get on next time

POWERQUALITY DMARKS: I hope everyone enjoyed this session.

POWERQUALITY MSTEARS: I am logging off Thanks

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POWERQUALITY SAM: This is Tony and I am watching the action... we made history.
Great work guys.

POWERQUALITY BRIAN: Lunch time

POWERQUALITY BRIAN: Next chat is nov 15th

POWERQUALITY BRIAN: 10-12ct

POWERQUALITY BRIAN: please continue to look at utilicorp's hp

POWERQUALITY BRIAN: for more info

POWERQUALITY BRIAN: email if you have any questions regarding the chat

POWERQUALITY BRIAN: bspencer@utilicorp.com

POWERQUALITY BRIAN: later

SUPPORT BRIAN: hi guys

SUPPORT BRIAN: success

SUPPORT BRIAN: yess!!

SUPPORT BRIAN: thanks for the help

SUPPORT BRIAN: cya

POWERQUALITY BRIAN: next chat on Nov 15th

POWERQUALITY BRIAN: 10-12 ct

POWERQUALITY BRIAN: any suggestion on topics please contact me by email

POWERQUALITY BRIAN: bspencer@utilicorp.com

POWERQUALITY BRIAN: hi chuck

POWERQUALITY BRIAN: hi randy

POWERQUALITY CPREECS: hello brian

POWERQUALITY BRIAN: How are you chuck

POWERQUALITY CPREECS: how has the participation been?

POWERQUALITY BRIAN: I am sorry you missed the official chat, but do come back at
any time for some chatting

POWERQUALITY BRIAN: great 20 people avg. 50 total people

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POWERQUALITY CPREECS: ?yes, i got some conflicting info

POWERQUALITY BRIAN: transcripts will be in PQ mag next month and on utilicorp's home page

POWERQUALITY CPREECS: what were the topics discussed?

POWERQUALITY BRIAN: how is that chuck

POWERQUALITY BRIAN: power quality, standards,

POWERQUALITY BRIAN: retail wheeling

POWERQUALITY BRIAN: cya, -lunch time

POWERQUALITY CPREECS: later

POWERQUALITY BRIAN: bye all

POWERQUALITY BRIAN: email me chuck

POWERQUALITY RB: sorry I missed it. I got 12-2 est off the net. bye.

POWERQUALITY BRIAN: sorry RB

POWERQUALITY BRIAN: miss information

POWERQUALITY BRIAN: next chat is 10-12

POWERQUALITY BRIAN: ct

POWERQUALITY BRIAN: nov 15th

POWERQUALITY BRIAN: bye

POWERQUALITY RB: thanks

POWERQUALITY BRIAN: no prob, tell all

POWERQUALITY ANDY: Is anyone still here talking about power quality?

POWERQUALITY DAVE: Just signed on that is what I was trying to find out

POWERQUALITY ANDY: the PQ chat was running from 11:00-1:00est

POWERQUALITY ANDY: Were you involved then?

POWERQUALITY DAVE: No I just got a chance to sign on now

POWERQUALITY ANDY: there were some great discussions.

POWERQUALITY DAVE: I am working on a resonant problem with Utility and was looking for info

POWERQUALITY ANDY: explain

POWERQUALITY ANDY: by the way my e-mail is andy@powerquality.com

POWERQUALITY DAVE: we are running a lot of 5th har. across our system in a large data center

POWERQUALITY ANDY: I see

POWERQUALITY ANDY: I will try to address this in an upcoming issue. may be march/april or even sooner.

POWERQUALITY DAVE: we have 4800kw of UPS cap on two transformers and we have alot of 5th on our other boards

POWERQUALITY ANDY: If you are interested in writing up a case history including you solutions I would like to review it and poss. publish

POWERQUALITY MSTONEHAM: Is this chat session still active?

POWERQUALITY ANDY: YES

POWERQUALITY ANDY: We can't get enough! ! !

POWERQUALITY DAVE: when we can get it fixed, It looks like we have a problem with input filtering on a couple of UPS,s

POWERQUALITY ANDY: input fro the utility or a generator?

POWERQUALITY DAVE: utility

POWERQUALITY MSTONEHAM: I understand there was a chat session earlier today with some guest" chatters". Is there an archive of the discussion since I missed it?

POWERQUALITY DAVE: we have 66kv to 12kv then to 480 v by 4 trans on property

POWERQUALITY ANDY: What are you leaning towards in a solution dave

POWERQUALITY ANDY: MTONEHAM> >yes but I don't know when. contact

BSPENCER@utilicorp.com

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POWERQUALITY BRIAN: the conference was from 10-12 ct
POWERQUALITY BRIAN: someone gave out the wrong information
POWERQUALITY BRIAN: hello cilco
POWERQUALITY BRIAN: anyone still there
SUPPORT BRIAN: hi all
SUPPORT BRIAN: anyone there
POWERQUALITY BRIAN: jenny > > are you there
POWERQUALITY CJBOUTCHER: is anyone here a utility employee?
POWERQUALITY BRIAN: Hi chris
POWERQUALITY BRIAN: how are you?
POWERQUALITY CJBOUTCHER: hi brian it is quiet in here
POWERQUALITY BRIAN: the conference was at 10:00ct
POWERQUALITY CJBOUTCHER: ah I see
POWERQUALITY CJBOUTCHER: when is the next one?
POWERQUALITY BRIAN: nov 15th
POWERQUALITY BRIAN: 10-12
POWERQUALITY BRIAN: ct
POWERQUALITY CJBOUTCHER: is the channel open at other times?
POWERQUALITY BRIAN: yes 24 hours a dfay
POWERQUALITY CJBOUTCHER: but not much discussion?
POWERQUALITY BRIAN: not right now,
POWERQUALITY BRIAN: cya
POWERQUALITY CJBOUTCHER: bye
POWERQUALITY BRIAN: hi jenny
POWERQUALITY JOSH: hello?
POWERQUALITY BRIAN: hi dan
POWERQUALITY BRIAN: hi dan

POWERQUALITY BRIAN: are you awake yet?

POWERQUALITY BRIAN: just giving present this a.m.

POWERQUALITY BRIAN: :)

POWERQUALITY BRIAN: who is guest96

POWERQUALITY GUEST96: test

While a particular embodiment of the present invention has been disclosed, it is to be understood that various different modifications are possible and are within the true spirit of the invention, the scope of which is to be determined with reference to the claims set forth below. There is no intention, therefore, to limit the invention to the exact disclosure presented herein as a teaching of one embodiment of the invention.

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